



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
441460
 Component
Diesel Engine
 Fluid
{not provided} (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0030578	IL0030490	---
Sample Date		Client Info		09 Jan 2024	12 Oct 2023	---
Machine Age	mls	Client Info		21168	13688	---
Oil Age	mls	Client Info		21168	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	21	53	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	4	6	---
Lead	ppm	ASTM D5185m	>40	0	0	---
Copper	ppm	ASTM D5185m	>330	3	17	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

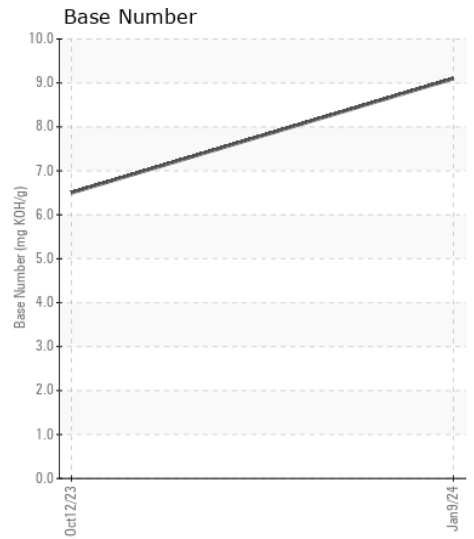
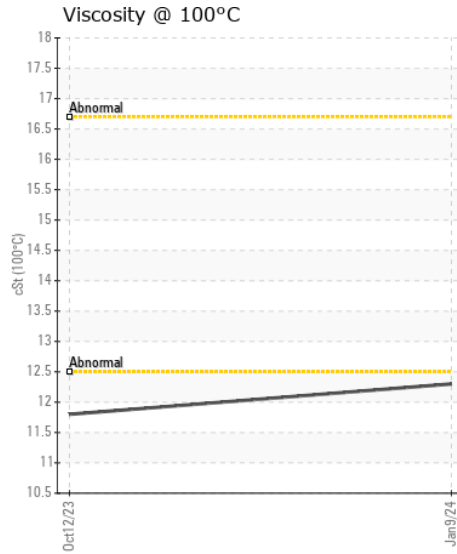
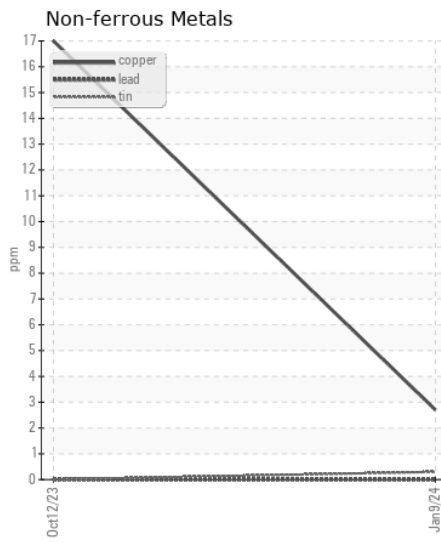
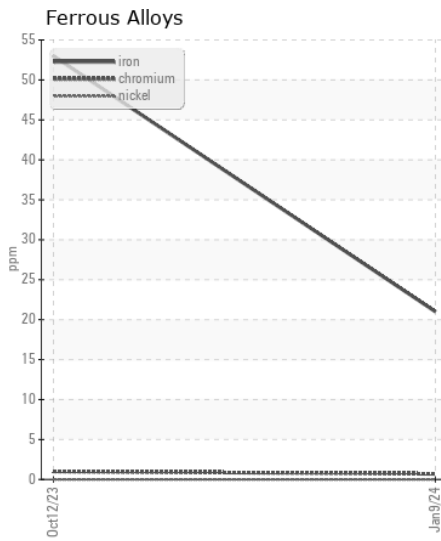
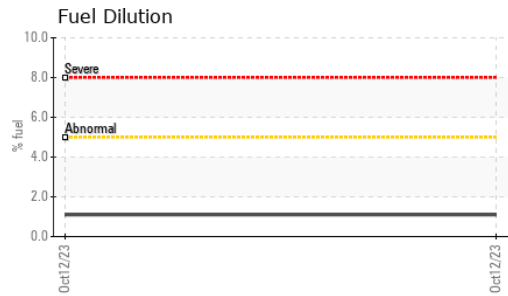
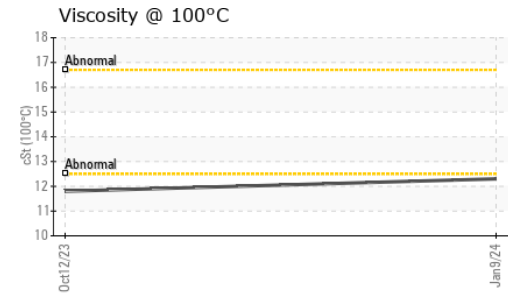
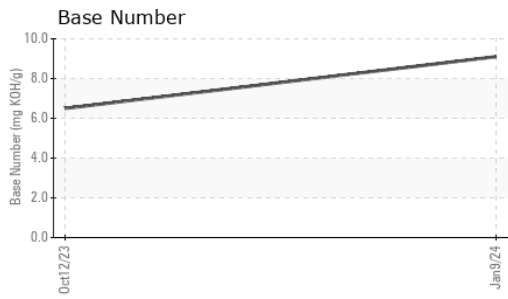
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	23	---
Potassium	ppm	ASTM D5185m	>20	9	12	---
Fuel	%	ASTM D3524	>5	<1.0	1.1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.2	11.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	23.0	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	6	---
Boron	ppm	ASTM D5185m		7	28	---
Barium	ppm	ASTM D5185m		<1	11	---
Molybdenum	ppm	ASTM D5185m		64	49	---
Manganese	ppm	ASTM D5185m		1	5	---
Magnesium	ppm	ASTM D5185m		984	778	---
Calcium	ppm	ASTM D5185m		1076	1201	---
Phosphorus	ppm	ASTM D5185m		1041	665	---
Zinc	ppm	ASTM D5185m		1244	869	---
Sulfur	ppm	ASTM D5185m		3177	2473	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	23.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.1	6.5	---
Visc @ 100°C	cSt	ASTM D445		12.3	11.8	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0030578 **Received** : 18 Jan 2024
Lab Number : 06064824 **Diagnosed** : 21 Jan 2024
Unique Number : 10836206 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution)

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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)